

U.S. Pacific Command



Experimentation
Activities
Key Results

Aug 06)

Experimentation Focus

Areas

- Focused logistics - Joint Experimental Deployment System
- Effects operations and planning - TEBO ACTD
- Information operations and assurance
- Joint Fires
- Bandwidth monitoring and control
- Collaboration

Participants USFK, USPACOM and assigned Components

Key Findings:

- Joint Experimental Deployment System (JxDS): Valuable insight into sub-Unified Commander's requirements, but not applicable for PACOM-wide use; limited acceptance of JxDS by USFK logistics personnel
- Theater Effects Based Operations (TEBO): Excellent application of effects planning and assessment in USFK. TEBO software tools greatly facilitated access to ONA database. PACOM J85 is facilitating broader theater application
- Joint Fires: Use of JADOCS as primary tool for coordinating and deconflicting fires within USFK is now part of the community culture. Most sustainment and support issues are resolved.
- Collaboration: Especially at the logistics "seams" and among the supported and supporting roles

Key Objectives / Warfighter

Challenges

- Improve joint force projection
- Improve Info-sharing
- Find, track, defeat, and defend against adversary ballistic missile, cruise missile, and UAV capabilities
- Improve joint force management
- Information operations
- Adaptive adversary understanding
- Joint global deterrence
- Generating effects
- Assessment process
- Joint Transportation Interface

Experimentation Focus

Areas

- Effects based operations, planning and assessment
- Information operations and assurance
- Joint Fires
- Intelligence, Surveillance, and Reconnaissance (ISR) management
- Bandwidth monitoring and control
- Collaboration
- Web-centric operations
- Science and Technology community integration

Participants USPACOM and assigned Components and forces; USSTRATCOM

Key Findings:

- Joint Force Projection ACTD: Valuable insight into multiple deployment and distribution data sources via a single, web-based interface
- Information Operations (IO) Range: Proven training range capability that is value-added to IO planning and operations during exercises (and potentially real-world ops)
- Science and Technology (S&T) Cell: Value-added concept for quickly identifying S&T solutions to operational needs and applying them near-term; institutionalize concept with a CONOPS
- TacSat-1 / Operationally Responsive Space: Value-added concept for providing the JTF with tactical space assets; Virtual Mission Operations Center (VMOC) management tool provides excellent situational awareness and C2
- Joint Mobile Network Operations (JMNO): Potential for significant improvement for Service-led network integration at JTFs via enhanced TTPs, but need focus on a lower-tier, tactical exercise
- Collaboration: Especially at the “seams” between geographic and global combatant commands in the supported and supporting roles; candidate for future concept

Key Objectives / Warfighter

Challenges

- ISR preparation and synchronization
- Improve joint force projection
- Improve Info-sharing
- Find, track, defeat, and defend against adversary ballistic missile, cruise missile, and UAV capabilities
- Improve joint force management
- Information operations
- Adaptive adversary understanding
- Joint global deterrence
- Generating effects
- Maritime domain awareness
- Strategic communications
- Assessment process

U.S. Pacific Command



Near Term Experimentation Activities

Addressing Commander USPACOM top priorities

COBRA GOLD 07 (1-15 May 07)

Experimentation Focus

Areas

- Language Translation – Phraselators; Coalition chat instant messaging; Call-a-translator
 - C4ISR - Coalition Secure Management and Operations System; Perimeter Security; Smart Data Flow
 - Nonlethal capability - Vehicle Nonlethal Munitions; Dazzler; capability sets; Sound Commander; Vehicle Lightweight Arresting Device
 - Geospatial logistics - Joint Modular Intermodal Distribution system; Global In-transit Visibility; Node Management and Deployable Depot
- MARFORPAC, II MEF and Components,, Thailand, Singapore, 12 observer nations

Key Objectives / Warfighter

Challenges

- ISR preparation and synchronization
- Improved info sharing
- Collect and fuse multi-source data
- Coalition Information sharing
- Improve joint force projection
- Find, track, defeat, and defend against adversary ballistic missile, cruise missile, and UAV capabilities
- Improve joint force management
- Force protection
- Joint Transportation Interface

Expectations

- Assessment of multiple nonlethal capabilities and effects
- Concurrent implementation and assessment of multiple language translation methodologies
- Force protection
- Bandwidth management effectiveness
- Effective in-transit visibility

May/Jun 07)

Experimentation Focus

- Joint C2 for War on ~~Terror~~ **Activities** JT&E
- Joint and Combined fires - Joint Fires Coordination Measures JT&E; BAO Kits
- Persistent ISR - TacSat-2, small UAVs, see-through-structures technologies
- Maritime Domain Awareness - Underwater unmanned vehicles, Multi-INT Ship Tracking
- Multinational Inter-agency Group coordination
- Weather situational awareness - Cognitive Network for Atmospheric Sensing
- Logistics in-transit visibility - Joint Modular Intermodal Distribution System; Node Management and Deployable Depot; Coalition Movement System

Key Objectives / Warfighter Challenges

- ## Challenges
- ISR preparation and synchronization
 - Persistent ISR
 - Improved info sharing
 - Collect and fuse multi-source data
 - Interagency coordination and planning/operations in irregular warfare
 - Precision airdrop
 - Logistics tracking and visibility
 - Coalition information sharing
 - Entry operations lift
 - Cross-domain solutions
 - SOF C2
 - Information operations

Expectations

- **Assessment of multiple small UAVs, tactical satellites, see-through-structure technologies, and other assets for persistent ISR**
 - **Feasibility of submarines for use as C2 centers in forward SOF operations**
 - **Use of standard TTPs for joint and combined fires operations**
 - **Rapid airfield construction for landing of C-17s and at least three aircraft on ground**
 - **Initial operation of Joint/Combined Training Capability and the Joint Training and Experimentation Network for joint and combined operations with Australia**
 - **Analyze effects and countermeasures for GPS jamming**
 - **Improved weather awareness and operational effectiveness**
 - **Leverage Combined Enterprise Regional Information Exchange System (CENTRIXS) to enhance situational awareness and collaboration between US and Australian**

Experimentation Focus

Areas

- **Maritime Domain Awareness**
- **Integrated information operations training for implementing and assessing IO Range capabilities**
- **Collection of Service/DoD Science and Technology experts that support Tiers 1 and 2**
- **Use of TacSat for operationally responsive space**
- **GPS Jamming effectiveness and countering**

Participants **USPACOM** **North Carolina** **Chair** **Series** **JC2** **NEW**, **JIMI**, **Components**

Key Objectives / Warfighter

- **ISR preparation and synchronization**
- **Persistent ISR**
- **Improved info sharing**
- **Collect and fuse multi-source data**
- **Information operations**
- **ISR preparation and synchronization**
- **Improve joint force projection**
- **Find, track, defeat, and defend against adversary ballistic missile, cruise missile, and UAV capabilities**
- **Improve joint force management**
- **Information operations**
- **Maritime domain awareness**

Expectations

- **Assessment of tactical satellites for persistent ISR**
- **Ocean Glider unmanned underwater vehicle to collect ocean data**
- **Environmental acoustic recording system**
- **C2 of net-enabled weapons**
- **Stand-off SUW kill chain assessment**
- **Electronic warfare integrated reprogramming**
- **GPS jamming effectiveness and countering**

Need JFCOM assistance with analysis and military utility assessments

Experimentation

Experimentation Focus

- **FOAL ~~EAGLE~~**
- **BALIKATAN**
- **ARDENT SENTRY**
- **PANDEMIC INFLUENZA**
- **Service Exercises**
- **Title X Events**

How to Reach USPACOM

Experimentation

<http://www.hq.pacom.smil.mil/j8/j85>

michael.solomon@pacom.mil

michael.solomon@pacom.smil.mil